

Land Recycling Program Chapter 250 Rulemaking Overview

**Cleanup Standards Scientific Advisory Board Meeting
February 13, 2019**

**presented by
Michael Maddigan
PADEP**

Tom Wolf, Governor

Patrick McDonnell, Secretary

Concepts Overview

Today's Discussion

- Overview of rulemaking text changes.
- Overview of changes to medium-specific concentration (MSC) and other tables.
- Next steps in rulemaking process.

Subchapter A – GENERAL PROVISIONS

- 250.1 – Changed the definition of a volatile compound.
- 250.4 – Updated practical quantitation limit (PQL) calculation language.
- 250.6(c) and (d) – Updated public involvement plan (PIP) language.
- 250.10 – Changed references to the Groundwater Monitoring Guidance to reference Appendix A of the Technical Guidance Manual (TGM).
- Addition of § 250.12 – Professional Seals

Subchapter C. SATEWIDE HEALTH STANDARD

- 250.304(f) – Added five aqueous solubility sources.
- 250.305(g) – Clarified that this provision does not apply to compounds with a primary Maximum Contaminant Level (MCL) or Health Advisory Level (HAL) and a secondary MCL (SMCL). Removed fluoride and manganese from Table 2 Secondary Contaminants table.
- 250.306(d) – Changed groundwater ingestion rate from 2 L/day to 2.5 L/day. This resulted in changes to the groundwater ingestion related exposure factors in the table in § 250.306(d).



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Subchapter C. STATEWIDE HEALTH STANDARD

- 250.306(e) – Changed the references and text of this section to reflect new blood lead model use.
- 250.307(g)(1) – Added “x 24 hr/day” to the numerator in the equation in § 250.307(g)(1). This was inadvertently omitted from the equation in the previous rulemaking.
- 250.308(a)(2)(ii) – The word “standard” was replaced with “generic numeric value” to avoid the implication that the $1/10^{\text{th}}$ value is always the soil MSC for saturated soil.

Subchapter D. SITE-SPECIFIC STANDARD

- 250.402(d) – Clarified that 250.311(e) cannot be used to protect ecological receptors under the site-specific standard (SSS).
- 250.409(1) – Clarified that an approved remedial investigation report is needed prior to having an approvable risk assessment report.
- 250.410(d) – Clarified that a cleanup plan is required when institutional or engineering controls are used to attain the SSS.

Subchapter E. SIA STANDARDS

- 250.503(e) – Added language to clarify that when land use changes from non-residential to residential at Special Industrial Area (SIA) sites, an amendment to the baseline environmental report may be needed, not just a new remediation plan.

➤ Subchapter F. EXPOSURE AND RISK DETERMINATIONS

- 250.603 – Changed citation of the EPA's 1992 *Final Guidelines for Exposure Assessment* to EPA's 2011 *Exposure Factors Handbook*.
- 250.605 – Added EPA's Office of Pesticide Program's Human Health Benchmarks for Pesticides to the toxicity value source hierarchy.

Subchapter G. DEMONSTRATION OF ATTAINMENT

- 250.704(d) – Changed reference to § 250.707 because § 250.707(b)(2)(i) relates only to the 75% 10x rule, not all statistical tests.
- 250.707(b)(1)(ii) – Replaced “Statewide health standard” with “Medium-Specific Concentration.”
- 250.707(b)(1)(iii) – Add language clarifying when or if a vapor intrusion analysis is necessary at sites with localized petroleum releases.

Tables 1 & 2

- Table 1 – Added perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), and perfluorobutane sulfonate (PFBS).
- Table 1 – Added footnote that the PFOS and PFOA MSC also applies when combined.
- Tables 1 & 2 – Added TDS units of “mg/L” in the headers.
- Table 2 – Added footnote stating that the MSCs for copper and lead are PA State MCLs.

Tables 3A & 3B

- Tables 3A & 3B – Calculated PFOS, PFOA, and PFBS soil numeric values.
- Tables 3A & 3B – Calculated total PCB soil numeric values and deleted individual Aroclors.
- Table 3B – Footnotes regarding trihalomethanes (THMs) and haloacetic acids (HAAs) removed.

Tables 4A, 4B, & 5A

- Table 4A – Residential and non-residential direct contact values calculated for lead using updated models and target blood lead level of 10 µg/dL.
- Table 4B – No soil or groundwater numeric values for aluminum or iron so removed all “NA’s.”
- Table 4B – Calculated copper values and removed all “NA’s.”
- Table 5A – Added PFOS, PFOA, and PFBS toxicity data.

➤ Table 7 – Default Values for Calculating MSCs for Lead

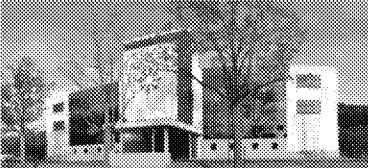
- Updated the residential exposure input parameters for use in the IEUBK blood lead model.
- Updated the non-residential exposure input parameters for use in the Adult Lead Model used by EPA.

PCBs

- Total PCB groundwater value based on MCL.
- Removed individual Aroclor PCB values from Tables 1, 3A, 3B, and 5A.
- Calculated total PCB numeric values for soil (Tables 3A and 3B).
- This approach is more consistent with EPA's evaluation of PCBs in soil.

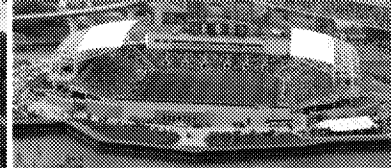
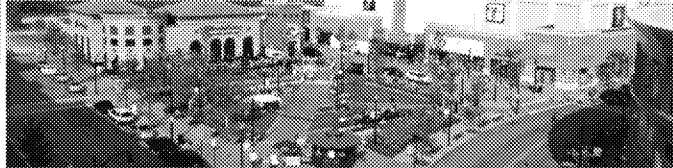
Next Steps for Rulemaking

- Finalize language for proposed annex, including proposed changes to tables.
- Environmental Quality Board consideration of proposed rulemaking in mid-2019.



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Questions?
Mike Maddigan
mmaddigan@pa.gov